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- Solid oxide fuel cells; NiO/stabilized yttria-zirconia (YSZ) anode substrates; Gel casting; Peak power; Graphite pore-former (Zhang, L. (170) 55)

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- Proton exchange membrane fuel cell; Hydrogen peroxide; Ruthenium/carbon catalyst; Open-circuit voltage (Jung, U.H. (170) 281)

Oxygen electro-reduction

- Alloy film; Electrodeposition; Catalyst; Methanol electro-oxidation (Xu, Y. (170) 13)

Oxygen reduction

- Palladium; Catalyst; Fuel cell; Pt free; Mechanism (Mustain, W.E. (170) 28)

Oxygen reduction reaction

- Pt/C; Pulse-microwave assisted polyol synthesis method (Song, S. (170) 46)

Oxygen reduction reaction (ORR)

- Iridium; Ir-Co alloy; Electrocatalyst; Methanol tolerance; Direct methanol fuel cell (DMFC) (Lee, K. (170) 291)

Palladium

- Oxygen reduction; Catalyst; Fuel cell; Pt free; Mechanism (Mustain, W.E. (170) 28)

Particle size

- Ultra-fine powder; YSZ; Plasma spray; Synthesis (Wang, Z. (170) 145)

PBI membrane

- PEM fuel cell; Transient evolution; CO poisoning (Wang, C.-P. (170) 235)

Peak power

- Solid oxide fuel cells; NiO/stabilized yttria-zirconia (YSZ) anode substrates; Gel casting; Optimization; Graphite pore-former (Zhang, L. (170) 55)

PEM fuel cell

- Liquid water transport; Visualization; Gas diffusion layer; Microporous layer (Sternjak, D. (170) 334)

PEM fuel cell

- PBI membrane; Transient evolution; CO poisoning (Wang, C.-P. (170) 235)

PEM fuel cell

- Water transport; Microporous layer; Net water drag; Ionomeric membrane (Atiyeh, H.K. (170) 111)

PEMFC
Bipolar plate; Stainless steel; Ferrite; Tin oxide (Wang, H. (170) 387)

PEMFC
Contact resistance; GDL compression; Clamping force (Zhou, P. (170) 93)

PEMFC
Water visualization; Water management; Neutron radiography (Chen, Y.-S. (170) 376)

Performance
SOFC; Heat/mass transfer; Electrochemical reaction (Wang, Y. (170) 101)

Phosphoric acid-doped polybenzimidazole
High-temperature polymer electrolyte fuel cell; Ionomer content; Membrane electrolyte assembly; Cathode catalyst; Potential loss (Kim, J.-H. (170) 275)

Plasma spray
Ultra-fine powder; YSZ; Synthesis; Particle size (Wang, Z. (170) 145)

Plasticizer
Polymer electrolyte; Poly (vinyl chloride)/poly (acrylonitrile) blend; Ionic conductivity; Thermal stability; Lithium perchlorate (Rajendran, S. (170) 460)

Platinum alloys
Ethanol oxidation; Direct ethanol fuel cells; Electrocatalysts (Antolini, E. (170) 1)

Poly (vinyl chloride)/poly (acrylonitrile) blend
Polymer electrolyte; Plasticizer; Ionic conductivity; Thermal stability; Lithium perchlorate (Rajendran, S. (170) 460)

Polyaniline
Carbon nanotube; Microbial fuel cell; Anode modification; Power density (Qiao, Y. (170) 79)

Polyaniline/graphite composite
Rechargeable battery; Zinc; Discharge capacity; Specific energy (Ghanbari, K. (170) 513)

Polymer
Poly(vinylidene fluoride); Electrolytes; Lithium; Battery (Gentili, V. (170) 185)

Polymer electrolyte
Nanocomposite; Ionic conductivity; Impedance spectroscopy; Lithium battery (Wang, M. (170) 425)

Polymer electrolyte
Poly (vinyl chloride)/poly (acrylonitrile) blend; Plasticizer; Ionic conductivity; Thermal stability; Lithium perchlorate (Rajendran, S. (170) 460)

Polymer electrolyte fuel cell
Sodium borohydride; Hydrogen generation; Co-B catalyst (Kim, S.J. (170) 412)

Polymer electrolyte fuel cells
Hot-pressed MEA; Catalyst-coated membrane; Cell performance; Fabrication method (Tang, H. (170) 140)

Polymer electrolyte fuel cells
Membranes; Silica; SPEEK; Composites; Proton conductivity (Sambandam, S. (170) 259)

Polypyrrole
Composite electrodes; Graphite; Cyclic voltammetry; Electrochemical impedance spectroscopy (Dione, G. (170) 441)

Poly(vinylidene fluoride)
Polymer; Electrolytes; Lithium; Battery (Gentili, V. (170) 185)

Poly(vinylidene) fluoride
Porous membrane; Mechanical strength; Ionic conductivity; Morphology control; Lithium battery (Seol, W.-H. (170) 191)

Porous media
Sodium borohydride; Reactor modeling; Multi-phase (Zhang, J. (170) 150)

Porous membrane
Mechanical strength; Ionic conductivity; Morphology control; Poly (vinylidene) fluoride; Lithium battery (Seol, W.-H. (170) 191)

Positive plate
Lead-acid batteries; Gel-crystal model; Impedance spectroscopy (EIS); Electrochemical double layer (EDL); State of health (SoC); State of charge (SoH) (Kirchev, A. (170) 495)

Potential loss
High-temperature polymer electrolyte fuel cell; Ionomer content; Membrane electrolyte assembly; Phosphoric acid-doped polybenzimidazole; Cathode catalyst (Kim, J.-H. (170) 275)

Power
MEMS; Hybrid; Optimization; Implantable; Microbattery (Albano, F. (170) 216)

Power density
Polyaniline; Carbon nanotube; Microbial fuel cell; Anode modification (Qiao, Y. (170) 79)

Pressure loss
Solid oxide fuel cell; Gas turbine; Pressurized hybrid system; Compressor surge (Park, S.K. (170) 130)

Pressurized hybrid system
Solid oxide fuel cell; Gas turbine; Pressure loss; Compressor surge (Park, S.K. (170) 130)

Proton conductivity
Cross-linking; Sulfonation; Membrane (Ding, F.C. (170) 20)

Proton conductivity
Polymer electrolyte fuel cells; Membranes; Silica; SPEEK; Composites (Sambandam, S. (170) 259)

Proton conductivity
Sulfonated poly(sulfide sulfone); Membrane; Cross-linking (Zhang, C. (170) 42)

Proton conductor
Solid oxide fuel cell; Ammonia fuel; BaCe_{0.9}Nd_{0.1}O_{3-δ}; Suspension spray (Xie, K. (170) 38)

Proton exchange membrane fuel cell
Hydrogen peroxide; Ruthenium/carbon catalyst; Oxygen cross-over; Open-circuit voltage (Jung, U.H. (170) 281)

Proton exchange membrane (PEM)
Nafion® membrane; Humidity cycle; Mechanical response; Elasto-plasticity; Swelling anisotropy (Kusoglu, A. (170) 345)

Pt and CeO₂
Electro-catalysts; Methanol electro-oxidation; Direct methanol fuel cells (DMFC) (Wang, J. (170) 297)

Pt free
Oxygen reduction; Palladium; Catalyst; Fuel cell; Mechanism (Mustain, W.E. (170) 28)

Pt/C
Oxygen reduction reaction; Pulse-microwave assisted polyol synthesis method (Song, S. (170) 46)

PtRu/C electrocatalyst
γ-Irradiation; Methanol; Fuel cell (Silva, D.F. (170) 303)

PtRu/C nanoparticle electrocatalyst
Direct ethanol fuel cell; PtRuMo/C nanoparticle electrocatalyst; Ethanol electrooxidation (Wang, Z.-B. (170) 242)

PtRuMo/C nanoparticle electrocatalyst
Direct ethanol fuel cell; PtRu/C nanoparticle electrocatalyst; Ethanol electrooxidation (Wang, Z.-B. (170) 242)

Pulse-microwave assisted polyol synthesis method
Oxygen reduction reaction; Pt/C (Song, S. (170) 46)

PVDF
Carbon monofluoride; Impedance; Interfacial resistance (Nagasubramanian, G. (170) 179)

RBS
Vanadium pentoxide; Lithium intercalation; Ageing; XPS; AFM (Światowska-Mrowiecka, J. (170) 160)

Reactive flow
Tortuosity; Microscopic modeling; Lattice Boltzmann method; Solid oxide fuel cells (Asinari, P. (170) 359)

Reactor modeling
Sodium borohydride; Porous media; Multi-phase (Zhang, J. (170) 150)

Rechargeable battery
Polyaniline/graphite composite; Zinc; Discharge capacity; Specific energy (Ghanbari, K. (170) 513)

Ruthenium/carbon catalyst
Proton exchange membrane fuel cell; Hydrogen peroxide; Oxygen crossover; Open-circuit voltage (Jung, U.H. (170) 281)

Selective electrode
Mixed-reactant fuel cell; Hydrophobicity; Bipolar plate; Fuel cell (Zeng, R. (170) 286)

Silica
Polymer electrolyte fuel cells; Membranes; SPEEK; Composites; Proton conductivity (Sambandam, S. (170) 259)

Silicon monoxide (SiO)
Lithium-ion battery; Carbon composite; Capacity; Cycle performance; Volume change (Kim, J.-H. (170) 456)

Simulation
Adaptive neuro-fuzzy inference system (ANFIS); Artificial neural network (ANN); Solid oxide fuel cell (SOFC); Microgeneration; Modeling (Entchev, E. (170) 122)

Sodium borohydride
Hydrogen generation; Co-B catalyst; Polymer electrolyte fuel cell (Kim, S.J. (170) 412)

Sodium borohydride
Micro-fuel cell; Hydrogen; Micro-reformer; Direct methanol fuel cell; Methanol (Kundu, A. (170) 67)

Sodium borohydride
Reactor modeling; Porous media; Multi-phase (Zhang, J. (170) 150)

SOFC
Glass seal; Leak rate; Interface; Composite (Chou, Y.-S. (170) 395)

SOFC
Heat/mass transfer; Electrochemical reaction; Performance (Wang, Y. (170) 101)

Solid oxide fuel cell
Ammonia fuel; $\text{BaCe}_{0.9}\text{Nd}_{0.1}\text{O}_{3-\delta}$; Proton conductor; Suspension spray (Xie, K. (170) 38)

Solid oxide fuel cell
Gas turbine; Pressurized hybrid system; Pressure loss; Compressor surge (Park, S.K. (170) 130)

Solid oxide fuel cell
LNF cathode; Chromuim poisoning; Metallic interconnect; Electrochemical performance; Chromia-forming alloy (Zhen, Y.D. (170) 61)

Solid oxide fuel cell (SOFC)
Adaptive neuro-fuzzy inference system (ANFIS); Artificial neural network (ANN); Microgeneration; Modeling; Simulation (Entchev, E. (170) 122)

Solid oxide fuel cells
 NiO /stabilized yttria-zirconia (YSZ) anode substrates; Gel casting; Optimization; Peak power; Graphite pore-former (Zhang, L. (170) 55)

Solid oxide fuel cells
Thermal plasma spraying; Nanopowder; Components; Integrated fabrication; Cost reduction (Hui, R. (170) 308)

Solid oxide fuel cells
Tortuosity; Microscopic modeling; Reactive flow; Lattice Boltzmann method (Asinari, P. (170) 359)

Solid-oxide fuel cells
Doped ceria; Mesoporous; Methane; Catalyst (Wang, K. (170) 251)

Solid-state synthesis and Rietveld refinement
Li ion batteries; Cathode materials; Electrochemical properties (Sivaprakash, S. (170) 433)

Specific energy
Rechargeable battery; Polyaniline/graphite composite; Zinc; Discharge capacity (Ghanbari, K. (170) 513)

SPEEK
Polymer electrolyte fuel cells; Membranes; Silica; Composites; Proton conductivity (Sambandam, S. (170) 259)

Spent batteries
Li-ion batteries; Leaching; Liquid-liquid extraction (Dorella, G. (170) 210)

Stainless steel
Bipolar plate; Ferrite; Tin oxide; PEMFC (Wang, H. (170) 387)

Stainless steel
Fuel cell; Bipolar plate; Chromium nitride; Corrosion resistance; Interfacial contact resistance (Nam, D.-G. (170) 268)

State of charge (SoH)
Lead-acid batteries; Positive plate; Gel-crystal model; Impedance spectroscopy (EIS); Electrochemical double layer (EDL); State of health (SoC) (Kirchev, A. (170) 495)

State of health (SoC)
Lead-acid batteries; Positive plate; Gel-crystal model; Impedance spectroscopy (EIS); Electrochemical double layer (EDL); State of charge (SoH) (Kirchev, A. (170) 495)

Sulfonated poly(sulfide sulfone)
Membrane; Cross-linking; Proton conductivity (Zhang, C. (170) 42)

Sulfonation
Cross-linking; Proton conductivity; Membrane (Ding, F.C. (170) 20)

Supercapacitors
Electrochemical capacitors; Double-layer capacitors; Low temperature energy storage (Brandon, E.J. (170) 225)

Suspension spray
Solid oxide fuel cell; Ammonia fuel; $\text{BaCe}_{0.9}\text{Nd}_{0.1}\text{O}_{3-\delta}$; Proton conductor (Xie, K. (170) 38)

Swelling anisotropy
Proton exchange membrane (PEM); Nafion[®] membrane; Humidity cycle; Mechanical response; Elasto-plasticity (Kusoglu, A. (170) 345)

Synthesis
Ultra-fine powder; YSZ; Plasma spray; Particle size (Wang, Z. (170) 145)

Thermal plasma spraying
Solid oxide fuel cells; Nanopowder; Components; Integrated fabrication; Cost reduction (Hui, R. (170) 308)

Thermal runaway
Li-ion battery; Abuse modeling; Battery modeling; Hybrid electric vehicle (Kim, G.-H. (170) 476)

Thermal stability
Polymer electrolyte; Poly (vinyl chloride)/poly (acrylonitrile) blend; Plasticizer; Ionic conductivity; Lithium perchlorate (Rajendran, S. (170) 460)

Tin oxide
Bipolar plate; Stainless steel; Ferrite; PEMFC (Wang, H. (170) 387)

TiO_2 nanotubes/Pt/C (TNT/Pt/C)
Electrocatalyst; Ethanol electro-oxidation; Direct ethanol fuel cell (Song, H. (170) 50)

Tortuosity
Microscopic modeling; Reactive flow; Lattice Boltzmann method; Solid oxide fuel cells (Asinari, P. (170) 359)

Transient evolution
PBI membrane; PEM fuel cell; CO poisoning (Wang, C.-P. (170) 235)

Transportation
Life-cycle assessment; Hydrogen; Fuel cell bus; Diesel; Compressed natural gas (Ally, J. (170) 401)

Ultra-fine powder
YSZ; Plasma spray; Synthesis; Particle size (Wang, Z. (170) 145)

Utilization
Green's function; Non-homogeneous equation; Concentration; Eigen values; Eigen functions; Boundary value problem (Johan, M.R. (170) 490)

Vanadium pentoxide
Lithium intercalation; Ageing; XPS; AFM; RBS (Światowska-Mrowiecka, J. (170) 160)

Visualization
PEM fuel cell; Liquid water transport; Gas diffusion layer; Microporous layer (Spernjak, D. (170) 334)

Volume change

Silicon monoxide (SiO); Lithium-ion battery; Carbon composite; Capacity;
Cycle performance (Kim, J.-H. (170) 456)

Water management

PEMFC; Water visualization; Neutron radiography (Chen, Y.-S. (170) 376)
Water transport

PEM fuel cell; Microporous layer; Net water drag; Ionomeric membrane
(Atiyeh, H.K. (170) 111)

Water visualization

PEMFC; Water management; Neutron radiography (Chen, Y.-S. (170) 376)

XPS

Vanadium pentoxide; Lithium intercalation; Ageing; AFM; RBS (Świątowska-Mrowiecka, J. (170) 160)

YSZ

Ultra-fine powder; Plasma spray; Synthesis; Particle size (Wang, Z. (170)145)

Zinc

Rechargeable battery; Polyaniline/graphite composite; Discharge capacity;
Specific energy (Ghanbari, K. (170) 513)